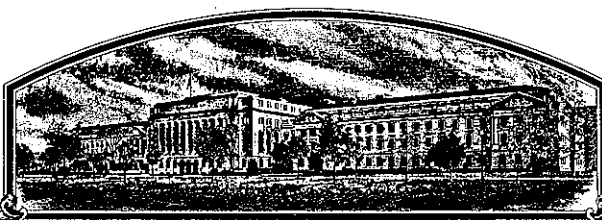


No.

8600129



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**Holden's Foundation Seeds, Inc.**

Whereas, THERE HAS BEEN PRESENTED TO THE  
**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (AT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN

'LH57'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D. C. this 30th day of January in the year of our Lord one thousand nine hundred and eighty-seven.

Attest:

*Kenneth H. Evans*  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

*Richard E. Lyng*  
Secretary of Agriculture

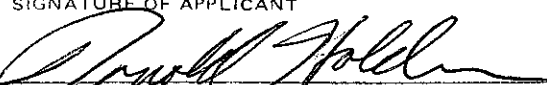
U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

FORM APPROVED: OMB NO. 0581-0055

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

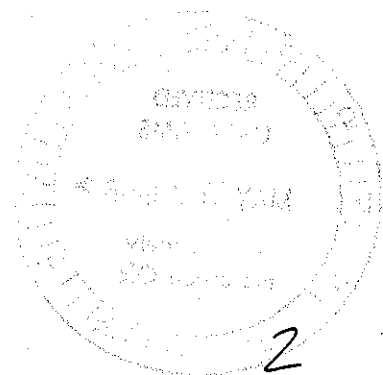
(Instructions on reverse)

|  |  |  |   |   |  |
|--|--|--|---|---|--|
| 1. NAME OF APPLICANT(S)<br>Holden's Foundation Seeds, Inc.   |  | 2. TEMPORARY DESIGNATION<br>Ex967            |   | 3. VARIETY NAME<br>LH57   |  |
| 4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code)<br>R.R.#2, Box 839<br>Williamsburg, Iowa 52361  |  | 5. PHONE (Include area code)<br>319-668-1100 |   | FOR OFFICIAL USE ONLY<br>VPPO NUMBER<br>8600129   |  |
| 6. GENUS AND SPECIES NAME<br>Zea mays  |  | 7. FAMILY NAME (Botanical)<br>Gramineae      |   | FILING<br>DATE May 27, 1986<br>TIME 10:00 <input checked="" type="checkbox"/> A.M. <input type="checkbox"/> P.M.              |  |
| 8. KIND NAME<br>Corn Field   |  | 9. DATE OF DETERMINATION<br>November 1984    |   | FEE RECEIVED<br>AMOUNT FOR FILING \$ 1800.<br>DATE May 27, 1986<br>AMOUNT FOR CERTIFICATE \$ 200.00<br>DATE December 19, 1986 |  |
| 10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.)<br>Corporation   |  |  |   | 12. DATE OF INCORPORATION   |  |
| 11. IF INCORPORATED, GIVE STATE OF INCORPORATION<br>Iowa   |  |  |   | 12. DATE OF INCORPORATION   |  |
| 13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS<br>Mr. Mark Armstrong<br>P.O. Box 839<br>Williamsburg, Iowa 52361<br>PHONE (Include area code): 319-668-1100  |  |  |   |   |  |
| 14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED  |  |  |   |   |  |
| a. <input checked="" type="checkbox"/> Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)   |  |  |   |   |  |
| b. <input checked="" type="checkbox"/> Exhibit B, Novelty Statement.   |  |  |   |   |  |
| c. <input checked="" type="checkbox"/> Exhibit C, Objective Description of Variety (Request form from Plant Variety Protection Office.)  |  |  |   |   |  |
| d. <input checked="" type="checkbox"/> Exhibit D, Additional Description of Variety.   |  |  |   |   |  |
| e. <input checked="" type="checkbox"/> Exhibit E, Statement of the Basis of Applicant's Ownership.   |  |  |   |   |  |
| 15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.) <input type="checkbox"/> Yes (If "Yes," answer items 16 and 17 below) <input checked="" type="checkbox"/> No   |  |  |   |   |  |
| 16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |  |  | 17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?<br><input type="checkbox"/> Foundation <input type="checkbox"/> Registered <input type="checkbox"/> Certified |   |  |
| 18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? <input type="checkbox"/> Yes (If "Yes," give date) <input checked="" type="checkbox"/> No  |  |  |   |   |  |
| 19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> Yes (If "Yes," give names of countries and dates) <input checked="" type="checkbox"/> No   |  |  |   |   |  |
| 20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.<br>The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.<br>Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties. |  |  |   |   |  |
| SIGNATURE OF APPLICANT<br>  |  |  |   | DATE<br>MAY 20, 1986 RJS<br>9/25/86   |  |
| SIGNATURE OF APPLICANT   |  |  |   | DATE<br>1   |  |

## Exhibit A

'LH57' was developed through a pedigreed system of breeding. On the following page is a schematic description of the development of 'LH57'. Also included are copies of pages from Holden's Foundation Seeds nursery books. The rows associated with the development of 'LH57' have been highlighted.

Attached is a statement from the originating plant breeder, Richard Miller, Holden's Foundation Seeds, stating that the line is uniform, stable and free of variance from within the population.

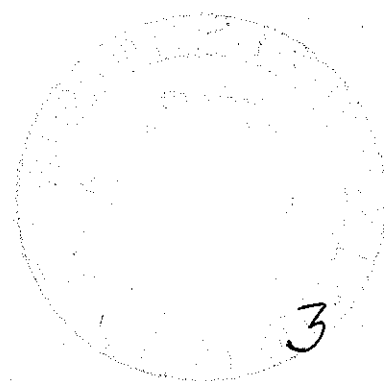


## Exhibit A

## Origin and Breeding History of the Inbred

LH57 = Ex967 = Mo17 x H99) (LH53

| <u>Row No.</u> | <u>Pedigree</u>                | <u>Location</u> | <u>Year</u> |
|----------------|--------------------------------|-----------------|-------------|
| 8256 x 8255    | Mo17 x H99) (LH53              | Hawaii          | 1978-79     |
| 15030          | Mo17 x H99) (LH53              | Iowa            | 1979        |
| 1886           | Mo17 x H99) (LH53 <sup>1</sup> | Iowa            | 1980        |
| 6194           | Mo17 x H99) (LH53 <sup>2</sup> | Hawaii          | 1980-81     |
| 9168           | Mo17 x H99) (LH53 <sup>3</sup> | Iowa            | 1981        |
| 7049           | Mo17 x H99) (LH53 <sup>4</sup> | Hawaii          | 1981-82     |
| 10378          | Mo17 x H99) (LH53 <sup>5</sup> | Iowa            | 1982        |
| 12023          | Mo17 x H99) (LH53 <sup>6</sup> | Hawaii          | 1982-83     |
| 6560-6569      | Ex967                          | Iowa            | 1984        |
| Jones Field    | LH57                           | Iowa            | 1985        |



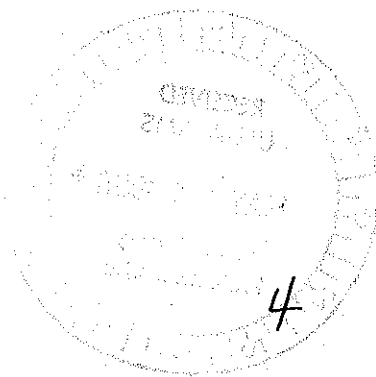
## Exhibit A

## Uniformity Statement

I have observed 'LH57' during the last two generations it has been increased, 1984 Iowa nursery rows 6560-6569 and 1985 Jones field, Iowa. In each of the increases, seeds from the previous generation were planted. The line is very stable and uniform from generation to generation. The line is also free of variance from within the population.

Richard Miller  
Plant Breeder

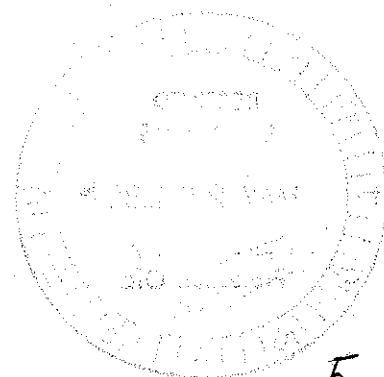
*Richard J. Miller*



## Exhibit B

## The Novelty Statement

'LH57' most closely resembles the inbred line 'Mo17Ht' however the most distinguishing characteristic is cob color. 'LH57' has a white cob while 'Mo17Ht' has a red cob.



OBJECTIVE DESCRIPTION OF VARIETY  
CORN (ZEA MAYS)

|  |   |
|--|---|
| NAME OF APPLICANT(S)<br>Holden's Foundation Seeds  | FOR OFFICIAL USE ONLY                         |
| ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)<br>R.R.#2, Box 839<br>Williamsburg, Iowa 52361 | PVPO NUMBER<br>8600129                        |
|  | VARIETY NAME OR TEMPORARY DESIGNATION<br>LH57 |

Place the appropriate number that describes the varietal character of this variety in the boxes below.  
Place a zero in first box (e.g.,  or ) when number is either 99 or less or 9 or less.

## 1. TYPE:

|                                |           |          |           |           |         |                |
|--------------------------------|-----------|----------|-----------|-----------|---------|----------------|
| <input type="text" value="2"/> | 1 = SWEET | 2 = DENT | 3 = FLINT | 4 = FLOUR | 5 = POP | 6 = ORNAMENTAL |
|--------------------------------|-----------|----------|-----------|-----------|---------|----------------|

## 2. REGION WHERE BEST ADAPTED IN THE U.S.A.:

|                                |                  |                  |                  |               |
|--------------------------------|------------------|------------------|------------------|---------------|
| <input type="text" value="7"/> | 1 = NORTHWEST    | 2 = NORTHCENTRAL | 3 = NORTHEAST    | 4 = SOUTHEAST |
|                                | 5 = SOUTHCENTRAL | 6 = SOUTHWEST    | 7 = MOST REGIONS |               |

## 3. MATURITY (In Region of Best Adaptability):

(Under "comments" (pg. 3) state how heat units were calculated)

|   |  |   |            |
|---|--|---|------------|
| <input type="text" value="7"/> <input type="text" value="9"/> | DAYS FROM EMERGENCE TO 50% OF PLANTS IN SILK         | <input type="text" value="1"/> <input type="text" value="4"/> <input type="text" value="1"/> <input type="text" value="2"/> | HEAT UNITS |
| <input type="text" value="0"/> <input type="text" value="0"/> | DAYS FROM 50% SILK TO OPTIMUM EDIBLE QUALITY         | <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> | HEAT UNITS |
| <input type="text" value="0"/> <input type="text" value="0"/> | DAYS FROM 50% SILK TO HARVEST AT 25% KERNEL MOISTURE | <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> | HEAT UNITS |

## 4. PLANT:

|  |                                 |  |                                     |
|--|---------------------------------|--|-------------------------------------|
| <input type="text" value="1"/> <input type="text" value="5"/> <input type="text" value="0"/> | CM. HEIGHT (To tassel tip)      | <input type="text" value="0"/> <input type="text" value="4"/> <input type="text" value="6"/> | CM. EAR HEIGHT (To base of top ear) |
| <input type="text" value="0"/> <input type="text" value="9"/>                                | CM. LENGTH OF TOP EAR INTERNODE |  |                                     |

## Number of Tillers:

|                                |          |         |         |         |
|--------------------------------|----------|---------|---------|---------|
| <input type="text" value="1"/> | 1 = NONE | 2 = 1-2 | 3 = 2-3 | 4 = > 3 |
|--------------------------------|----------|---------|---------|---------|

## Number of Ears Per Stalk:

|                                |            |                             |                             |                        |
|--------------------------------|------------|-----------------------------|-----------------------------|------------------------|
| <input type="text" value="1"/> | 1 = SINGLE | 2 = SLIGHT TWO-EAR TENDENCY | 3 = STRONG TWO-EAR TENDENCY | 4 = THREE-EAR TENDENCY |
|--------------------------------|------------|-----------------------------|-----------------------------|------------------------|

## Cytoplasm Type:

|                                |            |         |         |         |                     |
|--------------------------------|------------|---------|---------|---------|---------------------|
| <input type="text" value="1"/> | 1 = NORMAL | 2 = "T" | 3 = "S" | 4 = "C" | 5 = OTHER (Specify) |
|--------------------------------|------------|---------|---------|---------|---------------------|

## 5. LEAF (Field Corn Inbred Examples Given):

Color: 7.5 GY 3/4 Munsell Color Charts for Plant Tissue

|                                |                      |                        |                      |                            |
|--------------------------------|----------------------|------------------------|----------------------|----------------------------|
| <input type="text" value="1"/> | 1 = LIGHT GREEN (HY) | 2 = MEDIUM GREEN (WF9) | 3 = DARK GREEN (B14) | 4 = VERY DARK GREEN (K166) |
|--------------------------------|----------------------|------------------------|----------------------|----------------------------|

## Angle from Stalk (Upper half):

|                                |           |            |           |
|--------------------------------|-----------|------------|-----------|
| <input type="text" value="2"/> | 1 = < 30° | 2 = 30-60° | 3 = > 60° |
|--------------------------------|-----------|------------|-----------|

## Sheath Pubescence:

|                                |                  |                  |
|--------------------------------|------------------|------------------|
| <input type="text" value="2"/> | 1 = LIGHT (W22)  | 2 = MEDIUM (WF9) |
|                                | 3 = HEAVY (OH26) |                  |

## Marginal Waves:

|                                |               |               |                 |
|--------------------------------|---------------|---------------|-----------------|
| <input type="text" value="2"/> | 1 = NONE (HY) | 2 = FEW (WF9) | 3 = MANY (OH7L) |
|--------------------------------|---------------|---------------|-----------------|

## Longitudinal Creases:

|                                |                   |                 |
|--------------------------------|-------------------|-----------------|
| <input type="text" value="3"/> | 1 = ABSENT (OH51) | 2 = FEW (OH56A) |
|                                | 3 = MANY (PA11)   |                 |

## Width:

|   |                                   |
|---|-----------------------------------|
| <input type="text" value="1"/> <input type="text" value="0"/> | CM. WIDEST POINT OF EAR NODE LEAF |
|---|-----------------------------------|

## Length:

|  |                   |
|--|-------------------|
| <input type="text" value="0"/> <input type="text" value="6"/> <input type="text" value="4"/> | CM. EAR NODE LEAF |
|--|-------------------|

|   |                                   |
|---|-----------------------------------|
| <input type="text" value="1"/> <input type="text" value="0"/> | NUMBER OF LEAVES PER MATURE PLANT |
|---|-----------------------------------|

## 6. TASSEL:

0 5

NUMBER OF LATERAL BRANCHES

Branch Angle from Central Spike:

2

1 =  $< 30^\circ$ 2 =  $30-40^\circ$ 3 =  $> 45^\circ$ 

Penduncle Length:

0 3

CM. FROM TOP LEAF TO BASAL BRANCHES

Pollen Shed:

2-3

1 = LIGHT (WF9)

2 = MEDIUM

3 = HEAVY (KY21)

6

Anther Color:

1 = YELLOW

2 = PINK

3 = RED

4 = PURPLE

5 = GREEN

5

Glume Color:

6 = OTHER (Specify)

Yellow w/purple tip

Pollen Restoration for Cytoplasm (0 = Not Tested, 1 = Partial, 2 = Good)

0

"T"

0

"S"

0

"C"

0

OTHER (Specify Cytoplasm and degrees of restoration)

## 7. EAR (Husked Ear Data Except When Stated Otherwise):

1 6

CM LENGTH

3 7

MM. MID-POINT  
DIAMETER

1 0 2

GM. WEIGHT

Kernel Rows:

1

1 = INDISTINCT

2 = DISTINCT

1 0

NUMBER

1

1 = STRAIGHT

2 = SLIGHTLY CURVED

3 = SPIRAL

Silk Color (Exposed at Silking Stage):

1

1 = GREEN

2 = PINK

3 = SALMON

4 = RED

Husk Color:

1

FRESH

1 = LIGHT GREEN

2 = DARK GREEN

3 = PINK

6

DRY

4 = RED

5 = PURPLE

6 = BUFF

Husk Extention: (Harvest Stage)

2

1 = SHORT (Ears Exposed) 2 = MEDIUM (Barely Covering Ear)

3 = LONG (8-10CM Beyond Ear Tip)

4 = VERY LONG ( $> 10$  CM)

Husk Leaf:

1

1 = SHORT ( $< 8$  CM)

2 = MEDIUM (8-15 CM)

3 = LONG ( $> 15$  CM)

Shank:

0 9

CM LONG

5

NO. OF INTERNODES

Position at Dry Husk Stage:

3

1 = UPRIGHT

2 = HORIZONTAL

3 = PENDENT

Taper:

1

1 = SLIGHT

2 = AVERAGE

3 = EXTREME

Drying Time (Unhusked Ear):

2

1 = SLOW

2 = AVERAGE

3 = FAST

## 8. KERNEL (Dried):

Size (From Ear Mid-Point):

1 0

MM LONG

0 8

MM. WIDE

0 3

MM. THICK

Shape Grade (% Rounds)

2

1 =  $< 20$ 

2 = 20-40

3 = 40-60

4 = 60-80

5 =  $> 80$ 

7



## 8. KERNEL (Dried) :

Pericarp Color:

1 = COLORLESS

2 = RED-WHITE CROWN

3 = TAN

4 = BRONZE

5 = BROWN

6 = LIGHT RED

7 = CHERRY RED

8 = VARIEGATED (Describe) \_\_\_\_\_

Aleurone Color:

1 = HOMOZYGOUS

2 = SEGREGATING (Describe) \_\_\_\_\_

1 = WHITE

2 = PINK

3 = TAN

4 = BROWN

5 = BRONZE

6 = RED

7 = PURPLE

8 = PALE PURPLE

9 = VARIEGATED (Describe) \_\_\_\_\_

Endosperm Color:

1 = WHITE

2 = PALE YELLOW

3 = YELLOW

4 = PINK-ORANGE

5 = WHITE CAP.

## Endosperm Type:

1 = SWEET (su1)

2 = EXTRA SWEET (sh2)

3 = NORMAL STARCH

4 = HIGH AMYLOSE STARCH

5 = WAXY STARCH

6 = HIGH PROTEIN

7 = HIGH LYSINE

8 = OTHER (Specify) \_\_\_\_\_

GM. WEIGHT /100 SEEDS (Unsize Sample)

## 9. COB:

MM. DIAMETER AT MID-POINT

## Strength:

1 = WEAK

2 = STRONG

## Color:

1 = WHITE

2 = PINK

3 = RED

4 = BROWN

5 = VARIEGATED

6 OTHER (Specify) \_\_\_\_\_

## 10. DISEASE RESISTANCE (0 = Not Tested, 1 = Susceptible, 2 = Resistant):

STALK ROT (Diplodia)

STALK ROT (Fusarium)

STALK ROT (Gibberella)

NORTHERN LEAF BLIGHT

SOUTHERN LEAF BLIGHT

SMUT

SOUTHERN RUST

CORN SMUT

BACTERIAL WILT

BACTERIAL LEAF BLIGHT

MAIZE DWARF MOSAIC

STUNT

OTHER (Specify) \_\_\_\_\_

## 11. INSECT RESISTANT (0 = Not Tested, 1 = Susceptible, 2 = Resistant):

CORNBORER

EARWORM

SAPBEETLE

APHID

ROOTWORM (Northern)

ROOTWORM (Western)

ROOTWORM (Southern)

OTHER (Specify) \_\_\_\_\_

## 12. VARIETIES MOST CLOSELY RESEMBLING THAT SUBMITTED FOR THE CHARACTERS GIVEN:

| CHARACTER  | VARIETY | CHARACTER        | VARIETY |
|------------|---------|------------------|---------|
| Maturity   | Oh43Ht  | Kernel Type      |         |
| Plant Type | Mo17Ht  | Quality (Edible) |         |
| Ear Type   |         | Usage            | Mo17Ht  |

## REFERENCES:

U.S. Department Agriculture. Yearbook 1937.

Corn: Culture, Processing, Products. 1970 Avi Publishing Company, Westport, Connecticut. (Numerous (Authors)

Emerson, R.A., G.W. Beadle, and A.C. Fraser. A Summary of Linkage Studies in Maize, Cornell A.E.S., Mem. 180. 1935.

The Mutants of Maize. 1968. Crop Science Society of America. Madison, Wisconsin.

Stringfield, G.H. Maize Inbred Lines of Ohio, Ohio A.E.S. Bul. 831. 1959.

Butler, D.R. 1954 - A System for the Classification of Corn Inbred Lines - PhD. Thesis, Ohio State University.

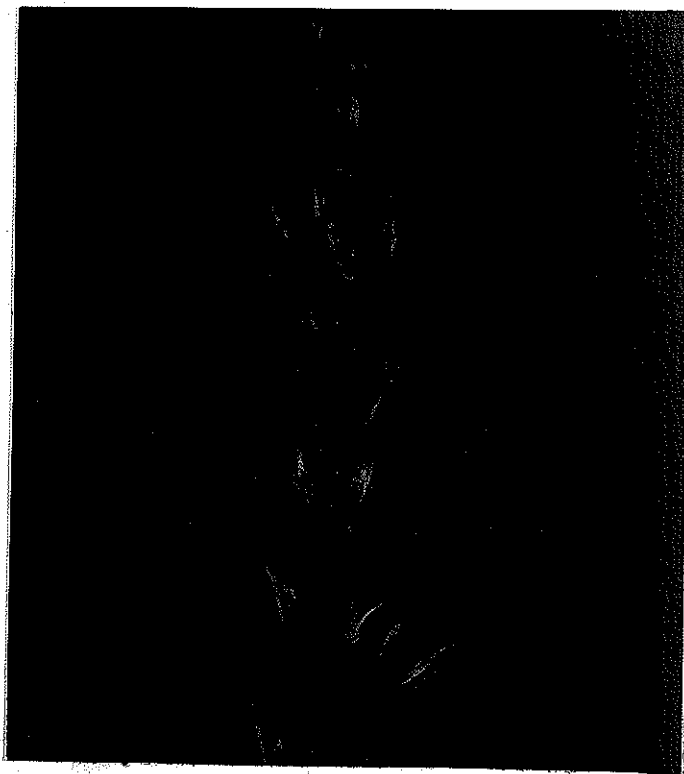
## COMMENTS:

$$GDD = \frac{T_{max} \times T_{min}}{2} - 50^{\circ}F$$

$$\begin{matrix} T_{max} & 86^{\circ}F \\ T_{min} & 50^{\circ}F \end{matrix}$$

Exhibit D  
Additional Description of the Inbred.

'LH57' has some other characteristics that distinguish it from 'Mo17Ht'. The first is another color. The anthers of 'LH57' are yellow with red tip when they first emerge from the glume. After some exposure to the sun the red tip bleaches out and the anther is completely yellow. In 'Mo17Ht' the anther is completely yellow and the red tip is absent. This trait of 'LH57' can be seen in the photograph below.



Photograph 1

The above photograph is a tassel spike of 'LH57'. Notice the red tips on the anthers.

The plant color of the two inbreds is also different. 'LH57' is darker green than 'Mo17Ht'. Using the Munsell Color Charts for Plant Tissues as a reference, 'LH57' is classified as 7.5 GY 3/4 and 'Mo17Ht' is classified as 5 GY 4/6.

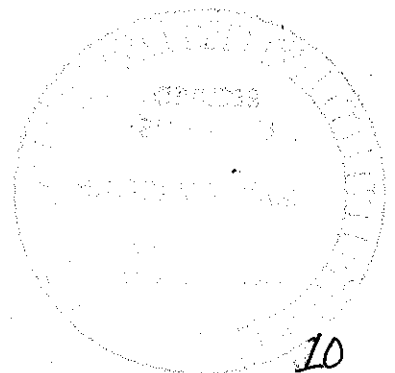
'LH57' flowers earlier than 'Mo17Ht'. 'LH57' reaches 50% pollen and 50% silk 175 and 181 heat units respectively earlier than 'Mo17Ht'. One characteristic of 'Mo17Ht' is that after it reaches mid pollen it takes another 5-7 days for it to reach mid silk. It takes 'LH57' 3-4 days to reach mid silk after it has reached the mid pollen stage.

## Exhibit D (Cont.)

Silk color is different between these two lines also. 'LH57' has green silks while 'Mo17Ht' is salmon in color.

'LH57' is shorter than 'Mo17Ht' in both plant height and ear height.

The leaf angle of 'LH57' at the upper part of the plant is greater than that of 'Mo17Ht'. 'LH57' has a leaf angle in the 30°-60° range while 'Mo17Ht' has a leaf angle less than 30°. 'Mo17Ht' is more upright and erect at the top of the plant than 'LH57'.



## Exhibit E

## Statement of Applicant's Ownership

Holden's Foundation Seeds, Inc., Williamsburg, Iowa believes it is the sole owner and breeder of the 'LH57' field corn inbred for which it solicits a certificate of protection.

